



Pre-Algebra

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STANDARDS	PAGE REFERENCES
Grade 7	
Number and Operations	
1. Understand numbers, ways of representing numbers, relationships among numbers and number systems	
A Read, write and compare numbers	
compare and order all <u>positive rational numbers</u> and find their approximate location on a number line	Student Edition: 61-62, 123 #4, 124 #5, 145 #42 <i>Mid-Chapter Quiz</i> 81 #7 Teacher Wraparound Edition: CP 58, 116; DI 63, 116D; FMC 116E
B Represent and use rational numbers	
recognize and generate equivalent forms of fractions, decimals and percents	Student Edition: 121-125, 331-334, 337-340, 350 #48-#51, 351 <i>Algebra Lab</i> 120 #2 <i>Mid-Chapter Quiz</i> 140 #1, #3, 356 #10-#17 <i>Standardized Test Practice</i> 167 #14 <i>Study Guide and Review</i> 160, 383 Teacher Wraparound Edition: AE 338, 339; CP 328; DI 339; FMC 328G, 333

STANDARDS	PAGE REFERENCES
C Compose and decompose numbers	
<p>*recognize equivalent representations for the same number and generate them by <u>decomposing and composing numbers</u>, including exponential notation</p>	<p>Student Edition: 78 #4, 117 #10-#15, 129 #2a, 131 #15-#20, #23-#28, 471-475, 493-498, 501 #8, 508 #40-#45 <i>Study Guide and Review</i> 160 #24-#31</p> <p>Teacher Wraparound Edition: AE 472, 494; DI 475; FMC 78</p>
D Classify and describe numeric relationships	
2. Understand meanings of operations and how they relate to one another	
A Represent operations	
B Describe effects of operations	
<p>*describe the effects of all operations on <u>rational numbers</u> including integers</p>	<p>Student Edition: 72 #6, 76 #1, 79 #44, 82 #14, 134-139, 141-146, 147-152, 153-158 <i>Algebra Lab</i> 67, 75, 82, 89 <i>Key Concepts</i> 69, 71, 76, 83, 84, 141 <i>Start Smart</i> P12-P13 <i>Study Guide and Review</i> 161</p> <p>Teacher Wraparound Edition: DI 139, 154; FMC 58G, 58H</p>
C Apply properties of operations	
<p>apply <u>properties of operations</u> (including order of operations) to positive rational numbers and integers</p>	<p>Student Edition: 6, 9, 18-23, 30 #45-#48, 38, 72 #6, 73 #39, #40, 74 #53-#55, 83, 85, 141, 143 #4, 171-176 <i>Algebra Lab</i> 177 <i>Mid-Chapter Quiz</i> 24 #16-#18, #25 <i>Practice Test</i> 53 #11-#14, 213 <i>Study Guide and Review</i> 50, 211</p> <p>Teacher Wraparound Edition: A 74; AE 19, 20, 172; DI 176; TT 9</p>

STANDARDS	PAGE REFERENCES
D Apply operations on real and complex numbers	
*approximate the value of square roots to the nearest whole number	Student Edition: 537-542, 548 #64-#69, 555 #48-#51 <i>Algebra Lab</i> 535-536 <i>Practice Test</i> 581 #1, #2 <i>Study Guide and Review</i> 578 Teacher Wraparound Edition: AE 538, 539; CP 532
3. Compute fluently and make reasonable estimates	
A Describe or represent mental strategies	
B Develop and demonstrate fluency	
C Compute problems	
apply all operations on rational numbers including integers	Student Edition: 69-74, 76-80, 83-88, 90-95, 134-138, 141-146, 147-151, 153-157 <i>Algebra Lab</i> 67-68, 75, 82, 89 <i>Mid-Chapter Quiz</i> 81, 140 <i>Practice Test</i> 111, 163 <i>Start Smart</i> P12-P13 <i>Study Guide and Review</i> 108-109, 161 Teacher Wraparound Edition: AE 71, 77, 84, 143, 155
D Estimate and justify solutions	
*estimate and justify the results of all operations on rational numbers	Student Edition: 71 #5, 131 #22, 138 #58, 147 #1, 149 #5, 155 #4, 206 #3, 336 #62, 340 #39, 352-354, 494 #3 <i>Algebra Lab</i> 39 #2 Teacher Wraparound Edition: DI 74, 352

STANDARDS	PAGE REFERENCES
E Use proportional reasoning	
<p>solve problems involving proportions, such as scaling and finding equivalent ratios</p>	<p>Student Edition: 265-269, 287-292, 294-299, 312 #30, #31, 848 <i>Algebra Lab</i> 293 <i>Mid-Chapter Quiz</i> 286 #7, #8 <i>Practice Test</i> 323 #9, #10, #11 <i>Standardized Test Practice</i> 326 #5</p> <p>Teacher Wraparound Edition: AE 289, 295; CP 262, 586; DI 266, 269, 271; FMC 296</p>
Algebraic Relationships	
1. Understand patterns, relations and functions	
A Recognize and extend patterns	
B Create and analyze patterns	
<p>analyze patterns represented <u>graphically</u> or <u>numerically</u> with words or <u>symbolic rules</u>, including <u>recursive notation</u></p>	<p>Student Edition: 7 #3, 29 #37, 87 #42, 348 #25, 399 #39, 401-405, 410 #40, 417 #29 <i>Algebra Lab</i> 10, 32 <i>Mid-Chapter Quiz</i> 425 #5-#11 <i>Spreadsheet Lab</i> 17 <i>Standardized Test Practice</i> 114 #3, 467 #11 <i>Start Smart</i> P4, P8, P14-P15</p> <p>Teacher Wraparound Edition: AE 402; DI 30, 84, 405</p>
C Classify objects and representations	
<p>compare and contrast various forms of <u>representations</u> of patterns</p>	<p>Student Edition: 399 #39, 401-405 <i>Algebra Lab</i> 10, 32, 432 <i>Start Smart</i> P8, P14-P15</p> <p>Teacher Wraparound Edition: AE P15</p>

STANDARDS	PAGE REFERENCES
D Identify and compare functions	
<p>identify <u>functions</u> as <u>linear</u> or <u>nonlinear</u> from tables, graphs or equations</p>	<p>Student Edition: 33-36, 79 #40, 87 #42, 395-400, 406-411, 412-417, 504-509 <i>Algebra Lab</i> 31-32 <i>Graphing Technology Lab</i> 439-440 <i>Mid-Chapter Quiz</i> 425 <i>Practice Test</i> 53 #23, 527 #26-#33 <i>Study Guide and Review</i> 51, 459, 525 <i>TI-Nspire Calculator Lab</i> 38</p> <p>Teacher Wraparound Edition: AE 34, 35, 397, 407, 506; DI 37, 400, 505; FMC 397, 507; TT 409</p>
E Describe the effects of parameter changes	
2. Represent and analyze mathematical situations and structures using algebraic symbols	
A Represent mathematical situations	
<p>use <u>symbolic algebra</u> to represent unknown quantities in expressions or equations and solve linear equations with one variable</p>	<p>Student Edition: 11-16, 23 #53-#56, 34-37, 180 #4, 187 #37, 205-209, 406-410, 441-446 <i>Mid-Chapter Quiz</i> 24 #13-#15, 190, 425 #12 <i>Practice Test</i> 53, 213, 463 #12 <i>Preparing for Standardized Tests</i> 214-215 <i>Standardized Test Practice</i> 56 #4, 216-217, 466 #7 <i>Study Guide and Review</i> 50, 51, 212, 461</p> <p>Teacher Wraparound Edition: AE 12, 13, 35, 206, 442; CP 2, 168; DI 185; FMC 12</p>
B Describe and use mathematical manipulation	
<p>use properties to generate equivalent forms for simple algebraic expressions that include positive rationals and integers</p>	<p>Student Edition: 18-23, 30 #48, 171-176, 180 #4, 204 #60-#65, 209 #38-#41 <i>Algebra Lab</i> 177 <i>Mid-Chapter Quiz</i> 24 #17, #18, #25 <i>Practice Test</i> 53 #11 <i>Standardized Test Practice</i> 217 #9</p> <p>Teacher Wraparound Edition: AE 19; CP 168; DI 13, 172; FMC 174</p>

STANDARDS		PAGE REFERENCES
C Utilize equivalent forms		
D Utilize systems		
3. Use mathematical models to represent and understand quantitative relationships		
A Use mathematical models		
model and solve problems, using multiple representations such as graphs, tables, expressions, and linear equations		Student Edition: 15 #40, #43, 21 #37, 33-37, 43 #10, 172, 181 #45, 188 #45, 446 #42 <i>Algebra Lab</i> 39, 177 <i>Mid-Chapter Quiz</i> 24 #14, 425 #18, #19 <i>Practice Test</i> 53 #8, #10 <i>Study Guide and Review</i> 51 Teacher Wraparound Edition: AE 34, 35; CP 2, 392; DI 442
4. Analyze change in various contexts		
A Analyze change		
compare situations with constant or varying rates of change		Student Edition: 412-417, 418-424 <i>Mid-Chapter Quiz</i> 425 #20-#22 Teacher Wraparound Edition: AE 419; CP 392; DI 417; FMC 392G, 392H, 421
Geometric and Spatial Relationships		
1. Analyze characteristics and properties of two-and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships		
A Describe and use geometric relationships		
*Identify the 2-dimensional cross-section of a 3-dimensional shape		Student Edition: 666-668 Teacher Wraparound Edition: DI 660F, 665; TT 667

STANDARDS		PAGE REFERENCES
B Apply geometric relationships		
describe relationships between <u>corresponding sides</u> , <u>corresponding angles</u> and corresponding perimeters of <u>similar polygons</u>	Student Edition: 301-306, 317 #24, 709-715 <i>Geometry Lab</i> 300, 708 <i>Practice Test</i> 323 #13 <i>Preparing for Standardized Tests</i> 325 <i>Standardized Test Practice</i> 327 #9 <i>Study Guide and Review</i> 321 Teacher Wraparound Edition: AE 302; DI 306; FMC 303	
C Compose and decompose shapes		
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems		
A Use coordinate systems		
use coordinate geometry to construct and identify geometric shapes in the <u>coordinate plane</u> using their properties	Student Edition: 101-106, 307-312, 606-610 <i>Practice Test</i> 111 #32, 323 #14 <i>Standardized Test Practice</i> 115 #11 <i>Study Guide and Review</i> 110, 321 Teacher Wraparound Edition: AE 102, 308, 607; DI 610; FMC 103	
3. Apply transformations and use symmetry to analyze mathematical situations		
A Use transformations on objects		
B Use transformations on functions		
describe the relationship between the scale factor and the perimeter of the image using a <u>dilation</u> (<u>contractions-magnifications</u>) (stretching/ shrinking)	Student Edition: 305 #15, 307-312 <i>Standardized Test Practice</i> 327 #10 Teacher Wraparound Edition: AE 308; DI 312	
C Use symmetry		
*determine all lines of symmetry of polygons	Student Edition: 101-103	

STANDARDS	PAGE REFERENCES
4. Use visualization, spatial reasoning and geometric modeling to solve problems	
A Recognize and draw three-dimensional representations	
*use spatial visualizations to identify various 2-dimensional views of <u>isometric drawings</u>	Student Edition: <i>Algebra Lab</i> 557 <i>Geometry Lab</i> 663
B Draw and use visual models	
draw or use <u>visual models</u> to represent and solve problems	Student Edition: 595 #40, 615 #26, 621 #27, 629 #34, 667 #16, 685 #4 <i>Algebra Lab</i> 557 <i>Geometry Lab</i> 596-597, 663, 670, 696 <i>Preparing for Standardized Tests</i> 722-723 Teacher Wraparound Edition: CP 586, 660; DI 570, 618, 635, 660F, 665, 678, 681, 701, 715; FCA 670
Measurement	
1. Understand measurable attributes of objects and the units, systems and processes of measurement	
A Determine unit of measurement	
*identify and justify the unit of measure for volume (customary and metric)	Student Edition: 671-676, 677-681, 683-688, 712 #4 <i>Mid-Chapter Quiz</i> 689 <i>Practice Test</i> 721 <i>Preparing for Standardized Tests</i> 722-723 <i>Standardized Test Practice</i> 725 #13 <i>Study Guide and Review</i> 717-718 Teacher Wraparound Edition: AE 673, 685; CP 660; DI 681; FMC 679; T 677
B Identify equivalent measures	
identify the equivalent area and volume measures within a system of measurement e.g., sq ft. to sq in, m ³ to cm ³)	Student Edition: 484 #36, 673, 687 #29 <i>Geometry Lab</i> 670 <i>Mid-Chapter Quiz</i> 689 #12

STANDARDS	PAGE REFERENCES
C Tell and use units of time	
*solve problems involving addition and subtraction of time (hours, minutes and seconds)	Student Edition: <i>Start Smart</i> P10 #8, P13 #26 Teacher Wraparound Edition: DI 204
D Count and compute money	
2. Apply appropriate techniques, tools and formulas to determine measurements	
A Use standard or nonstandard measurement	
B Use angle measurement	
*use tools to measure angles to the nearest degree and classify the angle as acute, obtuse, right, straight, or reflex	Student Edition: 550-555 <i>Concepts and Skills Bank</i> 871, 873, 874 <i>Geometry Lab</i> 549 <i>Mid-Chapter Quiz</i> 556 #25-#28 Note: Reflex angle is limited to existing examples of measurement. Teacher Wraparound Edition: TT 874
C Apply geometric measurements	
solve problems involving circumference and/or area of a circle and surface area/volume of a rectangular or triangular prism, or cylinder	Student Edition: 508 #23, 632 #3, 633-634, 637 #2, 639-640, 647 #31-#33, 671-676, 677-681, 691-695, 697-701 <i>Mid-Chapter Quiz</i> 689 #8 <i>Practice Test</i> 655 #13-#14 <i>Standardized Test Practice</i> 658 #8 <i>Study Guide and Review</i> 654, 717-719 Teacher Wraparound Edition: AE 637, 672; CP 660, 726; DI 635, 678, 681, 695, 701

STANDARDS		PAGE REFERENCES
D Analyze precision		
E Use relationships within a measurement system		
*convert from one unit to another within a system of measurement (capacity) and convert square or cubic units within the same system of measurement		Student Edition: 279 #46, 680 #22, 687 #23 <i>Geometry Lab</i> 670 <i>Preparing for Standardized Tests</i> 54 Teacher Wraparound Edition: CP 262; TNT 674
Data and Probability		
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them		
A Formulate questions		
B Classify and organize data		
C Represent and interpret data		
select, create and use appropriate graphical representation of data, including circle graphs, <u>histograms</u>		Student Edition: 40-46, 376-381, 757-762 <i>Algebra Lab</i> 39, 729 <i>Concepts and Skills Bank</i> 882-883 <i>Graphing Technology Lab</i> 763 <i>Mid-Chapter Quiz</i> 81 #25 <i>Practice Test</i> 387 #32, #33 <i>Spreadsheet Lab</i> 227-228, 375 <i>Standardized Test Practice</i> 57 <i>Start Smart</i> P8-P9, P20, P21 <i>Study Guide and Review</i> 386 #13, 801 Teacher Wraparound Edition: AE 41; CP 2, 328, 726; DI 42, 377
2. Select and use appropriate statistical methods to analyze data		
A Describe and analyze data		
find, use and interpret <u>measures of center</u> and spread, including ranges		Student Edition: 743-749, 755 #21, 762 #22 <i>Mid-Chapter Quiz</i> 764 #4 <i>Standardized Test Practice</i> 807 #13 <i>Study Guide and Review</i> 800 Teacher Wraparound Edition: AE 744, 745; DI 744, 749, 762

STANDARDS		PAGE REFERENCES
B	Compare data and representations	
C	Represent data algebraically	
3.	Develop and evaluate inferences and predictions that are based on data	
A	Develop and evaluate inferences	
	use observations about differences between samples to make <u>conjectures</u> about the populations from which the samples were taken	Student Edition: 771-776, 777-781 <i>Algebra Lab</i> 729 Teacher Wraparound Edition: AE 772; CP 726; FMC 726H; TT 773
B	Analyze basic statistical techniques	
4.	Understand and apply basic concepts of probability	
A	Apply basic concepts of probability	
	use models to compute the probability of an event and make conjectures (based on theoretical probability) about the results of experiments	Student Edition: 765-770, 778, 779 #3, #4, 781 #28 <i>Algebra Lab</i> 782 Teacher Wraparound Edition: AE 766; DI 350, 778; TT 767
B	Use and describe compound events	
	Grade 8	
	Number and Operations	
1.	Understand numbers, ways of representing numbers, relationships among numbers and number systems	
A	Read, write and compare numbers	
	*compare and order all rational numbers including percents, and find their approximate location on a number line	Student Edition: 61-62, 65 #70, 123 #4, 124 #5, 127 #67, 341 #42, 347 #4, 475 #68-#71, 495-498 <i>Algebra Lab</i> 119-120 <i>Standardized Test Practice</i> 167 #14 Teacher Wraparound Edition: AE 62, 495; CP 58, 116; DI 63, 116D, 116E

STANDARDS	PAGE REFERENCES
B Represent and use rational numbers	
use fractions, decimals and percents to solve problems	<p>Student Edition: 121-125, 331-334, 337-340, 350 #48-#51, 351 <i>Algebra Lab</i> 120 #2 <i>Mid-Chapter Quiz</i> 140 #1, #3, 356 #18, #19 <i>Standardized Test Practice</i> 167 #14</p> <p>Teacher Wraparound Edition: AE 338, 339; CP 328; DI 339; FMC 328G, 333</p>
C Compose and decompose numbers	
*recognize equivalent representations for the same number and generate them by <u>decomposing and composing numbers</u> , including scientific notation	<p>Student Edition: 78 #4, 117 #10-#15, 129 #2a, 131 #15-#20, #23-#28, 471-475, 493-498, 501 #8, 508 #40-#45 <i>Study Guide and Review</i> 160 #24-#31</p> <p>Teacher Wraparound Edition: AE 472, 494; DI 475; FMC 78</p>
D Classify and describe numeric relationships	
2. Understand meanings of operations and how they relate to one another	
A Represent operations	
B Describe effects of operations	
C Apply properties of operations	
apply <u>properties of operations</u> to all rational numbers including order of operations and inverse operations	<p>Student Edition: 6, 9 #38, 18-23, 30 #45-#48, 72 #6, 73 #39, #40, 74 #53-#55, 83, 85, 141, 143 #4, 171-176, 184-189, 191-195 <i>Algebra Lab</i> 177 <i>Mid-Chapter Quiz</i> 24 #16, #18, #25, 190 <i>Practice Test</i> 53 #11-#14, 213 <i>Standardized Test Practice</i> 217 #8, #9 <i>Study Guide and Review</i> 50, 211, 212</p> <p>Teacher Wraparound Edition: A 74; AE 19, 20, 172; DI 176; FMC 185; TT 9</p>
D Apply operations on real and complex numbers	

STANDARDS	PAGE REFERENCES
3. Compute fluently and make reasonable estimates	
A Describe or represent mental strategies	
B Develop and demonstrate fluency	
C Compute problems	
D Estimate and justify solutions	
E Use proportional reasoning	
Algebraic Relationships	
1. Understand patterns, relations and functions	
A Recognize and extend patterns	
B Create and analyze patterns	
<p>generalize patterns represented <u>graphically</u> or <u>numerically</u> with words or <u>symbolic rules</u>, using <u>explicit notation</u></p>	<p>Student Edition: 7 #3, 29 #37, 87 #42, 348 #25, 399 #39, 401-405, 410 #40, 417 #29 <i>Algebra Lab</i> 10, 32 <i>Graphing Technology Lab</i> 426 <i>Mid-Chapter Quiz</i> 425 #5-#11 <i>Spreadsheet Lab</i> 17 <i>Standardized Test Practice</i> 114 #3, 466 #7, 467 #11 <i>Start Smart</i> P4, P8, P14-P15 Teacher Wraparound Edition: AE 402; DI 30, 84, 405; TT 452</p>
C Classify objects and representations	
<p>compare and contrast various forms of <u>representations</u> of patterns</p>	<p>Student Edition: 399 #39, 401-405 <i>Algebra Lab</i> 10, 32, 432 <i>Start Smart</i> P8, P14-P15 Teacher Wraparound Edition: AE P15</p>

STANDARDS	PAGE REFERENCES
D Identify and compare functions	
identify <u>functions</u> as <u>linear</u> or <u>nonlinear</u> from tables, graphs or equations	<p>Student Edition: 33-36, 79 #40, 87 #42, 395-400, 406-411, 412-417, 504-509 <i>Algebra Lab</i> 31-32 <i>Graphing Technology Lab</i> 439-440 <i>Mid-Chapter Quiz</i> 425 <i>Practice Test</i> 53 #23, 527 #26-#33 <i>Study Guide and Review</i> 51, 459, 525 <i>TI-Nspire Calculator Lab</i> 38</p> <p>Teacher Wraparound Edition: AE 34, 35, 397, 407, 506; DI 37, 400, 505; FMC 397, 507; TT 409</p>
E Describe the effects of parameter changes	
2. Represent and analyze mathematical situations and structures using algebraic symbols	
A Represent mathematical situations	
use <u>symbolic algebra</u> to represent and solve problems that involve linear relationships	<p>Student Edition: 441-446, 452 #18-#19 <i>Practice Test</i> 463 #11 <i>Study Guide and Review</i> 461</p> <p>Teacher Wraparound Edition: DI 447, 452</p>
B Describe and use mathematical manipulation	
use properties to generate equivalent forms for simple algebraic expressions that include all rationals	<p>Student Edition: 18-23, 30 #48, 171-176, 180 #4, 204 #60-#65, 209 #38-#41 <i>Algebra Lab</i> 177 <i>Mid-Chapter Quiz</i> 24 #17, #18, #25 <i>Practice Test</i> 53 #11 <i>Standardized Test Practice</i> 217 #9</p> <p>Teacher Wraparound Edition: AE 19; CP 168; DI 13, 172; FMC 174</p>
C Utilize equivalent forms	
D Utilize systems	

STANDARDS		PAGE REFERENCES	
3. Use mathematical models to represent and understand quantitative relationships			
A Use mathematical methods			
model and solve problems, using multiple representations such as graphs, tables, and linear equations		Student Edition: 15 #40, #43, 21 #37, 33-37, 43 #10, 172, 181 #45, 188 #45, 446 #42 <i>Algebra Lab</i> 39, 177 <i>Mid-Chapter Quiz</i> 24 #14, 425 #18, #19 <i>Practice Test</i> 53 #8, #10 <i>Study Guide and Review</i> 51	Teacher Wraparound Edition: AE 34, 35; CP 2, 392; DI 442
4. Analyze change in various contexts			
A Analyze change			
analyze the nature of changes (including slope and intercepts) in quantities in linear relationships		Student Edition: 412-417, 418-424, 427-431, 433-438 <i>Graphing Technology Lab</i> 426 <i>Mid-Chapter Quiz</i> 425 #20-#25 <i>Practice Test</i> 463 <i>Preparing for Standardized Tests</i> 465 <i>Study Guide and Review</i> 460-461	Teacher Wraparound Edition: AE 414, 428, 465; FMC 420; TT 419
Geometric and Spatial Relationships			
1. Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships			
A Describe and use geometric relationships			
*describe, classify and generalize relationships between and among types of a) 2-dimensional objects and b) 3- dimensional objects using their defining <u>properties</u> including Pythagorean Theorem		Student Edition: 550-555, 558-563, 598-603, 612-616, 617-622, 664-669 <i>Geometry Lab</i> 596-597 <i>Mid-Chapter Quiz</i> 556 #29-#32, 623 <i>Practice Test</i> 381, 655 <i>Preparing for Standardized Tests</i> 583 #2 <i>Study Guide and Review</i> 579, 651-653	Teacher Wraparound Edition: A 669; AE 599, 613; CP 532, 660; DI 563, 665; FMC 552; TT 551, 619

STANDARDS		PAGE REFERENCES
B Apply geometric relationships		
C Compose and decompose shapes		
2. Specify locations and describe spatial relationships using coordinate geometry and other representational systems		
A Use coordinate systems		
use coordinate geometry to analyze <u>properties of right triangles</u> and quadrilaterals (including the use of the Pythagorean Theorem)		Student Edition: 562 #33, 570 #34, 575 #19 <i>Algebra Lab</i> 557 Teacher Wraparound Edition: CP 532
3. Apply transformations and use symmetry to analyze mathematical situations		
A Use transformations on objects		
reposition shapes under <u>formal</u> transformations such as reflection, rotation and translation		Student Edition: 101-106, 133 #69-#72, 605-610 <i>Standardized Test Practice</i> 115 #11 <i>Study Guide and Review</i> 110, 652 Teacher Wraparound Edition: AE 103, 607; DI 106; FMC 103
B Use transformations on functions		
describe the relationship between the scale factor and the area of the image using a <u>dilation</u> (stretching/ shrinking)		Student Edition: 307-312, 317 #23 <i>Practice Test</i> 323 #14, #15 <i>Preparing for Standardized Tests</i> 325 <i>Spreadsheet Lab</i> 648-649 <i>Study Guide and Review</i> 321 Teacher Wraparound Edition: AE 308; DI 312; FMC 309
C Use symmetry		
*identify the number of rotational symmetries of regular polygons		Student Edition: 607, 608-610, 616 #34, 622 #48 <i>Mid-Chapter Quiz</i> 623 #7 Teacher Wraparound Edition: AE 607; CP 586; DI 607, 610; FMC 586G

STANDARDS	PAGE REFERENCES
4. Use visualization, spatial reasoning and geometric modeling to solve problems	
A Recognize and draw three-dimensional representations	
create <u>isometric drawings</u> from a given <u>net plan</u>	Student Edition: <i>Algebra Lab</i> 557 <i>Geometry Lab</i> 663 Note: Limited to isometric only
B Draw and use visual models	
draw or use <u>visual models</u> to represent and solve problems	Student Edition: 595 #40, 615 #26, 621 #27, 629 #34, 667 #16, 685 #4 <i>Algebra Lab</i> 557 <i>Geometry Lab</i> 596-597, 663, 670, 696 <i>Preparing for Standardized Tests</i> 722-723 Teacher Wraparound Edition: CP 586, 660; DI 570, 618, 635, 660F, 665, 678, 681, 701, 715; FCA 670
Measurement	
1. Understand measurable attributes of objects and the units, systems and processes of measurement	
A Determine unit of measurement	
B Identify equivalent measures	
C Tell and use units of time	
D Count and compute money	
2. Apply appropriate techniques, tools and formulas to determine measurements	
A Use standard or non-standard measurement	
B Use angle measurement	
solve problems of angle measure, including those involving triangles and parallel lines cut by a transversal	Student Edition: 377 #2, 554-555, 590-595 <i>Concepts and Skills Bank</i> 874 <i>Geometry Lab</i> 549 Teacher Wraparound Edition: AE 591; FMC 591
C Apply geometric measurements	

STANDARDS	PAGE REFERENCES
D Analyze precision	
*analyze <u>precision</u> and accuracy in measurement situations and determine number of significant digits	Student Edition: 158 #65, 483 #26, 489 #42, #44, 491 #57, 604 #35 <i>Concepts and Skills Bank</i> 879
E Use relationships within a measurement system	
Data and Probability	
1. Formulate questions that can be addressed with data and collect, organize and display relevant data to answer them	
A Formulate questions	
B Classify and organize data	
C Represent and interpret data	
select, create and use appropriate graphical representation of data (including <u>scatter plots</u>) and <u>box plots (box and whiskers)</u>	Student Edition: 40-46, 74 #50-#52, 376-381, 750-755, 757-762 <i>Algebra Lab</i> 39, 729 <i>Concepts and Skills Bank</i> 882-883 <i>Graphing Technology Lab</i> 756, 763 <i>Mid-Chapter Quiz</i> 81 #25 <i>Practice Test</i> 387 #32, #33 <i>Spreadsheet Lab</i> 227-228, 375 <i>Standardized Test Practice</i> 57 <i>Study Guide and Review</i> 386 #13, 801 <i>Start Smart</i> P8-P9, P20, P21 Teacher Wraparound Edition: AE 41; CP 2, 328, 726; DI 42, 377
2. Select and use appropriate statistical methods to analyze data	
A Describe and analyze data	
find, use and interpret <u>measures of center</u> , <u>outliers</u> and spread, including range and <u>interquartile range</u>	Student Edition: 743-749, 755 #21, 762 #22 <i>Mid-Chapter Quiz</i> 764 #4 <i>Standardized Test Practice</i> 807 #13 <i>Study Guide and Review</i> 800 Teacher Wraparound Edition: AE 744, 745; DI 744, 749, 762

STANDARDS	PAGE REFERENCES
B Compare data representations	
<p>compare different representations of the same data and evaluate how well each representation shows important aspects of the data</p>	<p>Student Edition: 34, 42, 44, 175 #42, 195 #43, 208 #19, 341 #42, 373 #32, 377 #2, 451 #7 <i>Algebra Lab</i> 39 <i>Graphing Technology Lab</i> 47-48 <i>Standardized Test Practice</i> 467 #15</p> <p>Teacher Wraparound Edition: AE 35, 41</p>
C Represent data algebraically	
3. Develop and evaluate inferences and predictions that are based on data	
A Develop and evaluate inferences	
<p>make <u>conjectures</u> about possible relationships between 2 characteristics of a sample on the basis of scatter plots of the data and approximate lines of fit</p>	<p>Student Edition: 42-44, 175 #42, 195 #43, 208 #19, 451 #7 <i>Algebra Lab</i> 39 <i>Graphing Technology Lab</i> 47-48 <i>Standardized Test Practice</i> 467 #15</p> <p>Teacher Wraparound Edition: AE 41, 449; FMC 41</p>
B Analyze basic statistical techniques	
4. Understand and apply basic concepts of probability	
A Apply basic concepts of probability	
B Use and describe compound events	